	Application No.	Applicant(a)
	Application No.	Applicant(s)
Notice of Allowability	10/688,439	DOAN ET AL
	Examiner	Art Unit
	David S. Blum	2813
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>11/2/05</u> .		
2. The allowed claim(s) is/are <u>64-68 and 107-125</u> .		
3. The drawings filed on 16 October 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unally all bloometally and all bloometally all bloometally and all bloometally all bloometally	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submi	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposition attached Examiner's comment regarding REQUIREMENT F		
Attachment(s)		
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	te
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date		
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.	
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Application/Control Number: 10/688,439

Art Unit: 2813

This action is in response to the RCE filed 11/2/05.

Reasons for Allowance

- 1. Claims 64-68 and 107-125 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claim 64 limits the formation of a trench isolation to filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. This limitation, in combination with the other limitations of claim 64is not taught or suggested by the prior art of record. Iyer (US006455394B1) fills the trench with an initially liquid fill, but does not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. Iba (US005883006A) also fills the trench with an initially liquid fill, but does not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. Beekmann (Sub-Micron Gap Fill...), McClatchie (Low Dielectric Constant Flowfill...), and Kiermasz (Planarisation for sub-Micron Devices...) teach filling a gap with an initially liquid deposition material, but do not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench.

Claims 65-68 and 107-125 are allowed as being properly dependent upon allowed claim 64.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (571)-272-1687) and e-mail address is David.blum@USPTO.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (571)-272-1702. Our facsimile number all patent correspondence to be entered into an application is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David S. Blum

November 23, 2005